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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

November 05, 2014

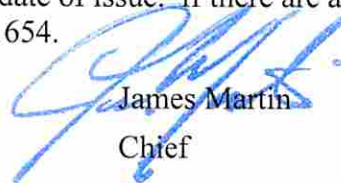
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5300148, issued to ENERVEST OPERATING L. L. C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 1-917  
Farm Name: FRIESE, BELLE  
**API Well Number: 47-5300148**  
**Permit Type: Plugging**  
Date Issued: 11/05/2014

**Promoting a healthy environment.**

# PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

## CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date \_\_\_\_\_, 20\_\_\_\_  
2) Operator's  
Well No. Belle Frieze #1-917  
3) API Well No. 47-053 - 00148

47-053-00148

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_/ Gas X/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_) Deep \_\_\_\_/ Shallow X

5) Location: Elevation 935' Watershed Horse Cave Run  
District Union County Mason Quadrangle New Haven (7.5) Ravenswood (15)

6) Well Operator EnerVest Operating, L.L.C. 7) Designated Agent Barry K. Lay  
Address 300 Capitol Street, Suite 200 Address Same  
Charleston, WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Jamie Stevens Name R. L. Wharton Enterprises LTD  
Address 105 Kentuck Road Address 261 Shiloh Lane  
Kenna, WV 25248 Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:

Mobilize equipment to site. Rig-up rig.

6% Gel 4800' to 0 Use type 1 cement in all plugs

Cement 4800' to 4200'; Cement 2600' to 2400'

Cement 100' at at 4 1/2' pipe cut estimate 2370'

Cement 100' at 7' casing free point estimate 1900'

Cement 100' at elevation 850'; Cement 320' to 220'; Cement 100 to 0.

Erect a monument with the API number attached.

Note: Well records included.

*✓ H2S if there could be  
use Laytex Plug at Bottom  
Set first Plug Pull up tubing  
Clear Pipe Shut down  
tag next morning  
- If unable to cat pull up tag  
at 100' intervals*

*el. 935'*

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

*Jamie Stevens*

Date

*9/14/2014*

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Cottageville

Permit No. MAS-148

Rotary XXX Oil         
Cable        Gas XXX  
Recycling        Comb.         
Water Flood        Storage         
Disposal        (Kind)       

Company <u>DEVON CORPORATION</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Box 1433, Charleston, W. Va.</u>				
Farm <u>Belle Frieze</u> Acres <u>200</u> ac	Size			
Location (waters) <u>Horse Cave Run</u>	20-16			
Well No. <u>917</u> Elev. <u>935</u>	Cond.			
District <u>Union</u> County <u>Mason</u>	13-10"			
The surface of tract is owned in fee by <u>Peter &amp; Doris Elecker</u>	9 5/8	217	217	100 sax=to surfac
Address <u>Miller Addn. Ravenswood, WV</u>	8 5/8			
Mineral rights are owned by <u>Belle Frieze</u>	7	2566	2566	75 sax=625 feet
Address <u>Rt. 2, Cottageville, WV</u>	5 1/2			
Drilling Commenced <u>November 25, 1978</u>	4 1/2		4778	200 sax=2400 feet
Drilling Completed <u>December 4, 1978</u>	3			
Initial open flow <u>17</u> MCFD <u>cxxx</u> bbls.	2			
Final production <u>188</u> MCFD <u>xxx</u> per day bbls.	Liners Used			
Well open <u>4</u> hrs. before test <u>1600</u> RP.				

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing at 4724-4726 with 16 shots

Fractured Oriskany with 921 BBL water and 42,000# sand

Coal was encountered at None reported Feet        Inches         
Fresh water        Feet        Salt Water        Feet         
Producing Sand Oriskany Sand Depth 4724-4726

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	10		
Shale			10	192		
Sand			192	265		
Shale			265	523		
Sand			523	550		
Shale			550	648		
Sand			648	667		
Shale			667	845		
Sand			845	913		
Shale			913	1025		
Sand			1025	1035		
Shale			1035	1190		
Sand			1190	1259		
Shale			1259	1293		
Sand			1293	1320		
Shale			1320	1350		
Sand			1350	1438		
Shale			1438	1462		
Broken Sand			1462	1519		
Shale			1519	1638		
Sand			1638	1723		
Shale			1723	1794		
Maxon Sand			1794	1864		

(over)

\* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Big Lime			1864	2004		Free point at 1900
Shale			2004	2024		on 7"
Injun Sand			2024	2149		
Shale			2149	2486		Cut it's pull
Coffee Shale			2486	2506		3rd 200ft
Berea Sand			2506	2522		pay
Shale			2522	3666		
Brown Shale			3666	4101		
Shale			4101	4492		
Marcellus Shale			4492	4628		4200'
Onondaga L. S.			4628	4706		
Oriskany Sand			4706	4731		4800' Cont
Helderberg L. S.			4731	4792		Play
Log Total Depth			4731	4792		

Wellford.

✓ for possible  
H2S??  
Largest  
Play? chel?  
to H2S

EnerWest Operating LLC.  
47-053-001487

JSS

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Date January 5, 1979  
DEVON CORPORATION  
APPROVED A. C. Youse  
By District Geologist  
(Title)  
WV Department of Environmental Protection  
Owner

DEVON CORPORATION  
BELLE FRIESE DEVON #917  
UNION DISTRICT MASON COUNTY, WV  
PERMIT- MAS - 148 ELEVATION: 943 KB

H7 053-00148  
Snowest-  
plugging

11/21/78 Mrs. Miller FA14 dozer worked 2 hours moving dozer to location.

11/22/78 Roy Miller D6 dozer worked 10 hours building location. Moving rig in on location

11/23/78 Loaded and hauled 200' of 9 5/8" casing. H40 32.30# R2 C1. Mrs. Miller FA14 dozer worked 10 hours building location. Roy Miller HD6 dozer worked 8 hours building location. Location complete. FWA Rig #15 shut down due to darkness.

11/24/78 FWA Rig #15 shut down at contractors expense.

11/25/78 Mrs. Miller FA14 dozer worked 10 hours towing water truck. Roy Miller worked 12 hours hauling drilling water. FWA Rig #15 shut down at contractors expense.

11/26/78 Mrs. Miller FA14 dozer worked 16 hours moving FWA Rig #15 on location and helping rig up. Roy Miller worked 9 hours hauling drilling water. Rigging up.

11/27/78 Depth: 235'  
Footage: 235'  
PR.OP.: Waiting on cement.  
Spud hole at 9:30 a.m., 11/25/78. Ran 7 joints of 9 5/8" casing totaling 217' set at 225' KB. Cemented with 100 sax regular cement. Plugged down at 9:15 p.m., 11/26/78.  
Mrs. Miller FA14 dozer worked 10 hours towing cement trucks and finishing rig up rig.

11/28/78 Depth: 1170'  
Footage: 935'  
PR.OP.: Drilling with fluid.  
Loaded and hauled 2575' of 7" casing. 20# R3 C1 K55. Mrs. Miller FA14 dozer worked 4 hours, graded off location and towed pipe trucks. Roy Miller worked 4 hours hauling drilling water.

11/29/78 Depth: 1897'  
Footage: 727'  
PR.OP.: Drilling with fluid.

11/30/78 Depth: 2298'  
Footage: 401'  
PR.OP.: Drilling with fluid.  
Roy Miller worked 4 hours hauling drilling water.

12/01/78 Depth: 2575'  
Footage: 277'  
PR.OP.: Running 7" casing.  
Mrs. Miller HD14 dozer worked 10 hours pulling in air compressor and water truck. Roy Miller worked 9 hours hauling drilling water.

12/02/78 Depth: 2653'  
Footage: 78'  
PR.OP.: Drilling with air.  
Freshwater Rig #15 on location. Loaded and hauled 4825' of 4 1/2" casing. K55

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BELLE FRIESE

DEVON #917

47-053-00148 P.  
Ernest Pluss

12/03/78 Depth: 3970'  
Footage: 1317'  
PR.OP.: Drilling with foam. Hole got wet at approximately 2750'.

12/04/78 Depth: 4800'  
Footage: 830'  
PR.OP. Logging  
Reached TD at 8:30 p.m., 12/03/78. Mrs. Miller FA14 dozer worked 10 hours towing drill pipe truck and water truck. Roy Miller hauled drilling water.

12/05/78 Depth: 4800'  
Footage: 0'  
PR.OP.: Ready for completion rig.  
Ran Basin Surveys, Inc. GR-Density, Temperature and Induction Logs. Log shows total depth to be 4792'. Gas tested at 17 MCF at total depth. Ran 149 joints of 4½" casing totaling 4778' set at 4786' KB. Cemented with 200 sax Poz Mix with 10% salt and 50# Flo cel blended. Plug was down and rig released at 6:30 p.m., 12/4/78.  
Electric Log Tops:

Base of Pennsylvanian	1864
Big Lime	1864-2004
Injun Sand	2024-2149
Coffee Shale	2486-2506
Berea Sand	2506-2522
Brown Shale	3666-4101
Marcellus Shale	4492-4628
Onondaga L.S.	4628-4706
Oriskany Sand	4706-4731
Helderberg L.S.	4731-4792
Log Total Depth	4792'

Mrs. Miller HD11 dozer worked 18 hours towing water and logging trucks.

12/06/78 Mrs. Miller HD11 dozer worked 10 hours moving FWA Rig #23 off location.

12/07/78 Ready for completion rig.

12/08/78  
thru  
12/14/78 Ready for completion rig.

12/15/78  
thru  
12/21/78 Ready for completion rig.

12/22/78  
thru  
12/28/78 Ready for completion rig.

12/29/78  
thru  
01/04/79 Ready for completion rig.

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(2)

BELLE FRIESE

DEVON #917

47053-00148-P

01/05/79

thru

01/08/79

Ready for completion rig.

01/09/79

Roy Miller D6 dozer worked 8 hours moving frac tanks and towing water truck. Roy Miller water truck hauled frac water for six hours. Six (6) Devon tanks were moved on location. Total capacity, 1200 bbls. Roy Miller hauled 400 bbls of water. Total available at end of day, 400 bbls.

01/10/79

Roy Miller D6 dozer worked 15 hours moving Lloyd Jackson Rig #1 on location and towing water truck. Roy Miller water truck hauled frac water for 15 hours.

01/11/79

Roy Miller HD6 dozer worked 10 hours towing water, logging and acid trucks. Lloyd Jackson Rig #1 on location. Rigged up McCullough and ran a G/R Bond Cement Log from TD at 4750' to 2600'. Top of cement indicated at 2726'. Rig swabbed well to TD. Rigged up Halliburton Transport and dumped 500 gals of 15% HCl<sup>-</sup> acid. Rigged down Halliburton, McCullough ran in hole with 2' hollow carrier gun. The fuse failed to detonate, came out of hole with gun. Shut down due to darkness.

01/12/79

Roy Miller HD6 dozer towed frac trucks for 8 hours. Lloyd Jackson Rig #1 on location. Rigged up McCullough and perforated the Oriskany formation at 4724' to 4726' with 16 holes using 3 1/8" Omega Jets. Rigged down McCullough, rigged up Halliburton with Aircowell and hydro, fractured the Oriskany sand using a total of 921 bbl of water. The formation broke down at 2200 psi. The formation treated at an average pressure of 4100 psi, an average rate of 20 bpm. Displacing 15,000# of 80/100 sand, 27,000# of 20/40 sand, 500 gals of 15% HCl<sup>-</sup> acid and 187,000 scf of nitrogen 20 millicuries of radio active tracer beads were ran through out the frac. The instantaneous shut in pressure was 3000 psi, after 5 minutes, the was opened to atmosphere and allowed to flow back. Rigged down Halliburton and Aircowell.

01/13/79

Lloyd Jackson Rig #1 on location. Casing pressure was opened to atmosphere through out the night. Rig swabbed throughout the day. Shut well in for pressure build up.

1/14/79

Lloyd Jackson Rig #1 on location. Swabbed well through out the day. Total fluid, 2000'. Gas blowing from well.

1/15/79

Weekened.

1/16/79

Loaded and hauled 4800' of 2 3/8" tubing. J55 4.60# R2 C1. Roy Miller D6 dozer worked 5 hours towing pipe truck. Lloyd Jackson Rig #1 on location. 4 1/2" casing gauged at 1325 psi. Opened well to atmosphere and ran 4" swab, well had approx. 25' of fluid in hole. Rigged up Jackson Power Tongs and ran 149 joints of 2 3/8" tubing. Totaling 4721.90' set at 4725.90' KB. Shut well in for pressure build up.

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BELLE FRIESE

DEVON #917

47-053-00148-P.

1/17/79 Lloyd Jackson Rig #1 on location. 4½" casing pressure, 1000 psi, 2 3/8" tubing 600 psi. Opened well to atmosphere, well blew a large slug of fluid and heavy mist. Shut well in for pressure build up. Rigged down Lloyd Jackson Rig #1 and moved to #918 - BELLE FRIESE

1/18/79 Casing pressure 1075 psi, tubing 850 psi. Opened well to atmosphere, well blew a trace of oil and a large slug of water and then a mist. Well was opened for 2½ hours - the flow of gas was gauged at 13" through 1" plate. Open flow was 92,400 mcf per day. Shut well in.

1/19/79 Shut in.

1/20/79 4½" casing pressure 1300 psi. 2 3/8" tubing pressure, 1175 psi. Opened well to atmosphere, well blew approx. 400' of fluid and blew for 4 hours. Open flow test 2 6/10" mercury through 1" orifice. Side pressure after open flow - 200 psi. Shut in for week end.

1/21/79  
thru  
1/30/79 Shut in.

1/31/79 Casing pressure, 1350 psi, tubing 1150 psi. Brought heavy fluid. Took open flow test after 4½ hours - showing 2 1/10" mercury through 1" orifice. Shut well in.

2/01/79 Casing pressure, 1620 psi, tubing 1500 psi. Opened well to atmosphere, blew 200' of fluid. After 6 hours took open flow test - test showed 4" mercury through 1" orifice. Had heavy mist. Shut in.

2/02/79 Casing pressure, 1250 psi, tubing 1100 psi. Opened well to atmosphere, well blew 200' of fluid and heavy mist with oil. Well was opened 10 minutes, shut in.

2/03/79  
thru  
3/02/79 The final open flow was tested at 188 MCF/day from the Oriskany Sand with 1600 PSI shut in pressure. The well is ready for pipeline connection,

3/03/79  
thru  
3/20/79 Shut in.

3/21/79 Roy Miller HD6 dozer worked 10 hours cleaning up.

3/22/79 Roy Miller D6 dozer worked 10 hours towing tubing.

3/23/79 Roy Miller HD6 dozer worked 10 hours cleaning up.

3/24/79  
thru  
3/28/79 Well shut in for 6 days. Casing pressure, 1650 psi, tubing, 1600 psi. Opened well to atmosphere for 2 hours, well blew light mist. Shut in pressures; csg, 150 psi, tubing 140 psi. Shut in.

3/29/79  
thru  
4/09/79 Shut in.

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BELLE FRIESE DEVON #917

47-053-00148P

4/10/79 Well shut in for 4 days. Casing pressure, 1600 psi, tubing pressure, 1550 psi. Opened well to atmosphere for 1½ hours, well blew light mist. Shut in pressures; casing, 175 psi, tubing 175 psi. Shut in.

4/11/79 Shut in.

4/12/79 Well shut in for 2 days. Casing pressure, 1425 psi, tubing, 1375 psi. Opened well to atmosphere for 2 hours, well blew light fluid and cleaned up. Shut in pressures, casing, 175 psi, tubing 100 psi. Shut in. Opened flow tested 6.5 water through 1½" plate.

4/13/79  
thru  
4/19/79 Shut in.

4/20/79 Well hooked up and ready for pipeline.

4/21/79  
thru  
5/11/79 Ready for pipeline.

5/12/79  
thru  
5/04/79 Ready for pipeline.

6/05/79 Well shut in for 6 days. Casing pressure, 1700 psi, tubing pressure, 1700 psi. Psi tests only.

6/06/79  
thru  
6/07/79 Ready for pipeline.

6/08/79 Roy Miller's 2 HD6 dozers worked 16 hours cleaning up. Pipeline completed.

6/09/79  
thru  
7/13/79 Pipeline completed.

7/14/79  
thru  
8/03/79 Pipeline completed.

=====

8/23/79 TURNED INTO LINE.

9/27/79 Roy Miller water truck hauled production water.

6/17/81 Hauled salt water.

8/27/81 Hauled salt water.

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5.

BELLE FRIESE

DEVON NO. 917

4705300148 P

- 12/06/81 48 hour rock pressure 700#.
- 6/30/82 Moved swabbing unit on location. Blew well down. Side pressure 360#. Started swabbing at 11:30 a.m. Made 3 runs to bottom and brought back 11" of oil in tank. Side pressure down to 90#. Stopped swabbing at 1 p.m. Turned well in line. Fluid at 3000'. Before swabbing 4" x 1/2" plate; after swabbing 10" x 1/2" plate.
- 7/01/82 There was 160# pressure on tubing and side. Blew well down and started swabbing at 8 a.m. Made 3 runs to bottom. Brought oil the first 2 runs. Put 2" of oil in the tank. Stopped swabbing at 9:15 a.m. Side pressure down to 0. Fluid at 4500'. Well is clean. Turned well in line. Before swabbing 5" x 1/2" plate; after swabbing 0" x 1/2" plate. Moved swabbing unit off location.
- 9/28/82 Moved in swabbing unit on location. Well had 335# pressure on side. Started swabbing at 8 a.m. Made 6 runs to bottom. Put 9 1/4" of thick oil in tank. Side and tubing pressure equalled at 50#. Stopped swabbing at 2 p.m. Fluid at 3900'. Shut well in to rock up. Turned well into line. Well is not clean. Before swabbing 3" x 1/2" plate; after swabbing 8" x 1/2" plate.
- 9/29/82 Swabbed well.
- 1/03/83 Devon hauled 1 load of salt water from tank to disposal well 755-B.
- 8/18/83 Hauled 1 load of salt water from well to disposal well 755-B.
- 10/03/83 72 hour rock pressure 600#.
- 8/31/84 Petro Rig on location. Fished out Devon 2" swabbing tools. Swabbed hole dry through 4-1/2" casing. Ran 149 jts. of 2-3/8" upset tubing totaling 4,723.70'.
- 9/26/84 Left shop at 7:45 a.m. Arrived on location at 8:20 a.m. Well had 225# on side. Started swabbing at 8:58 a.m. Made 5 runs to bottom and put 4-1/2" of salt water and oil in tank. Side pressure 65#. Rigged down and moved to Devon 924 and rigged up. Stopped swabbing at 12:20 p.m. Fluid at 4200'. Well is clean. Before swabbing 4"-1/2". After 0"-1/2". Left location at 1:10 p.m. Returned to shop at 3:35 p.m.
- 3/1/85 Moved swabbing unit from shop to well and rigged up. Started swabbing at 9:30 a.m. Made 6 runs to bottom and put 6-1/4" of salt water in 100 bbl tank. Stopped swabbing at 3p.m. Before swabbing 1/2" x 0". After swabbing 1/2" x 4".

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BELLE FRIESE

QUINOCO NO. 917

41-053-048P.

4/23/85 Quinoco men hauled 1 load of salt water to disposal well  
755-B.

9/4/85 Watered well.

9/10/85 Put hand rails on 100 bbl. tank ladders.

1/9/86 Put water down well.

1/29/86 Put drip gas down well.

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1) Date: \_\_\_\_\_  
2) Operator's Well Number \_\_\_\_\_  
Belle Friese #1-917

3) API Well No.: 47 - 053 - 00148

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served: (a) Name <u>Doris Elicker</u> Address <u>22330 Wolfe Branch Rd.</u> <u>Sorrento, FL 32776-9100</u> (b) Name _____ Address _____ (c) Name _____ Address _____	5) (a) Coal Operator Name _____ Address _____ (b) Coal Owner(s) with Declaration Name <u>No Declaration of Record</u> Address _____ (c) Coal Lessee with Declaration Name _____ Address _____
6) Inspector Address <u>Jamie Stevens</u> <u>105 Kentuck Road</u> <u>Kenna, WV 25248</u> Telephone <u>304-206-7775</u>	

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator	<u>EnerVest Operating, L.L.C.</u>
By:	<u>Barry K. Lay</u>
Its:	<u>Senior Vice President and General Manager, Appalachia West Assets</u>
Address	<u>300 Capitol Street, Suite 200</u> <u>Charleston, WV 25301</u>
Telephone	<u>304-343-5505</u>

Subscribed and sworn before me this 11<sup>th</sup> day of August 2014  
[Signature] Notary Public  
My Commission Expires May 3, 2017

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



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OFFICE OF OIL AND GAS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



**EnerVest Operating, L.L.C.**  
Eastern Division

1064 Old Route 33, Weston, WV 26452-7722  
Phone (304) 517-1102 Fax (304) 517-1107

VIA CERTIFIED MAIL

August 18, 2014

Ms. Doris Elicker  
22330 Wolfe Branch Road  
Sorrento, FL 32776-9100

Re: Plugging Permit Belle Friese #1  
API# 47-053-00148  
Union District, Mason County, WV

Dear Surface Owner:

Pursuant to Chapter 22 of the West Virginia Code, enclosed please find copies of the following documents for the proposed plugging of the subject well:

- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit
- Surface Owner Waiver (2 copies)

This application is being filed by EnerVest with the Ad and Gas of the West Virginia Department of Environmental Protection. Any objections to the proposed process for the plugging of the well must be filed with the Statement of No Objection on the Surface Owner Waiver form and returned to the office in the enclosed envelope.

Comments as to the location construction or the proposed plugging of the well under the West Virginia Code, be filed by you with the said Administrative Office. The Application is filed by EnerVest. The address of the filing comments and obtaining additional information is

Permit Administrator  
West Virginia Division of Environmental  
Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
OFFICIAL USE	
Postage	\$ .91
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.91
Sent To: Ms. Doris Elicker	
Street, Apt. No., or PO Box No. 22330 Wolfe Branch Road	
City, State, ZIP+4 Sorrento, FL 32776-9100	
PS Form 3800, August 2006 See Reverse for Instructions	

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name EnerVest Operating, L.L.C. OP Code 30-9999

Watershed Horse Cave Run Quadrangle Cottageville (7.5) Ravenswood (15)

Elevation 935' County Mason District Union

Description of anticipated Pit Waste: No Pit To Be Built

Will a synthetic liner be used in the pit? N/A

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application  
☐ Underground Injection ( UIC Permit Number \_\_\_\_\_ )  
☐ Reuse (at API Number \_\_\_\_\_ )  
☐ Off Site Disposal (Supply form WW-9 for disposal location)  
☐ Other (Explain \_\_\_\_\_ )

Proposed Work For Which Pit Will Be Used:

- ☐ Drilling ☐ Swabbing  
☐ Workover ☐ Plugging  
☐ Other (Explain No Pit To Be Built )

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Barry K. Lay

Company Official (Typed Name) Barry K. Lay

Company Official Title Senior Vice President and General Manager, Appalachia West Assets

Subscribed and sworn before me this 11<sup>th</sup> day of August, 2014

[Signature]

Notary Public

My commission expires May 3, 2017



**LEGEND**

Property Boundary

Road

Existing Fence

Planned Fence

Stream

Open Ditch

Rock

North

Buildings

Water wells

Drill site

Diversion

Spring

Wet Spot

Drain Pipe with size in inches

Waterway

Cross Drain

Artificial Filter Strip

Pit: cut walls

Pit: compacted fill walls

Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 2.00 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Hay or Straw 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchardgrass	25	Orchardgrass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

See Attached GPS Well Location Form: GPS WW-7

Plan Approved by: Janice Stevens

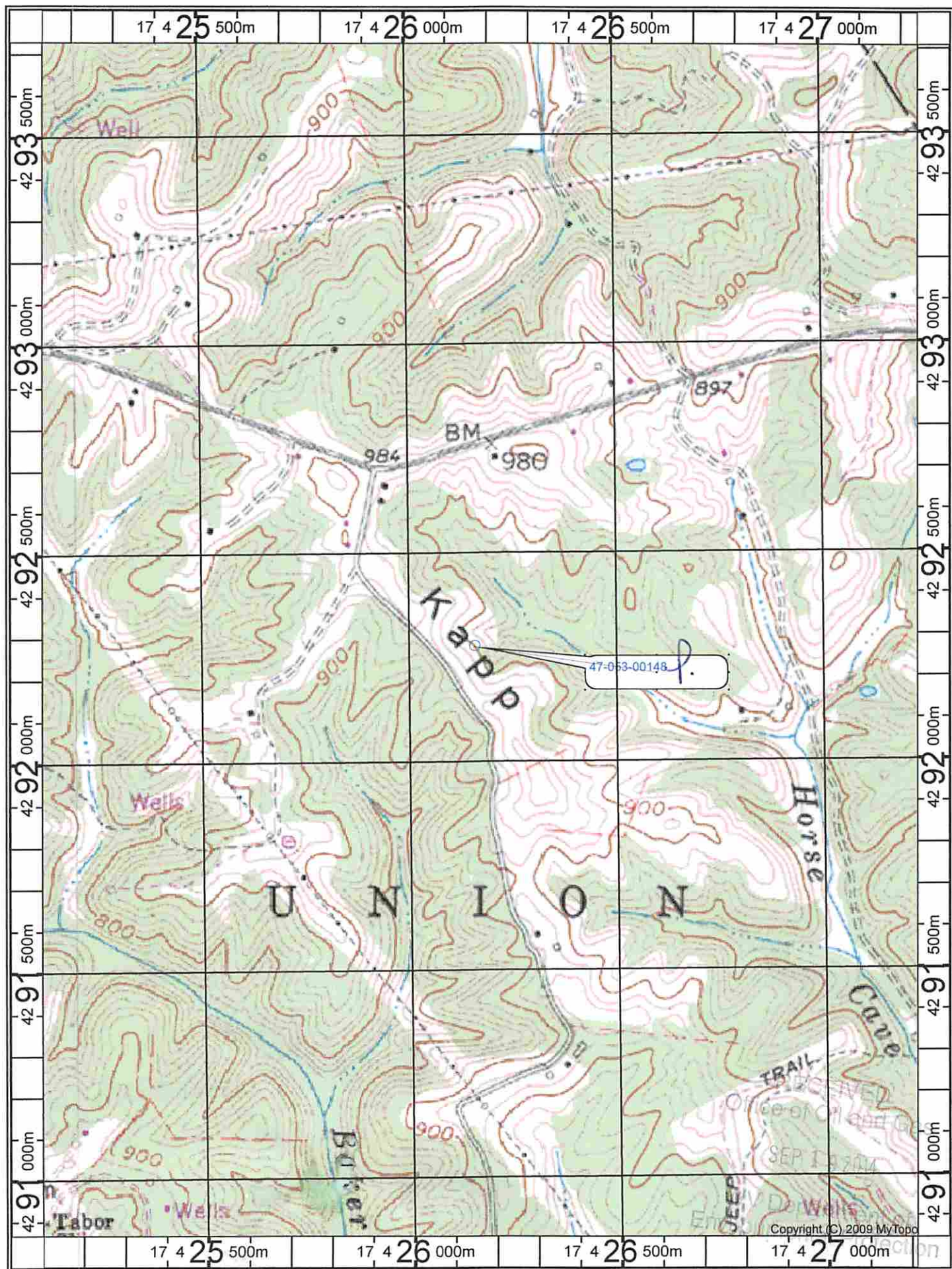
Comments: County Inspector

Title: 9/14/2014

Date: 9/14/2014

Field Reviewed? ☐ Yes ☐ No

RECEIVED  
Office of Oil and Gas  
SEP 19 2014  
WV Department of  
Environmental Protection





West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 4705300148 WELL NO.: Belle Frieze #1

FARM NAME: Belle Frieze

RESPONSIBLE PARTY NAME: Barry K. Lay

COUNTY: Mason 53 DISTRICT: Union 9

QUADRANGLE: Cottageville (7.5) Ravenswood (15)  
307

SURFACE OWNER: Doris Elicker et al

ROYALTY OWNER: Doris Elicker et al

UTM GPS NORTHING: 4292278.5

UTM GPS EASTING: 426157.1 GPS ELEVATION: 935

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

Mapping Grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Barry K. Lay  
Signature

Sr. VP & GM  
Title

8/11/14  
Date

RECEIVED  
Office of Oil and Gas

SEP 9 2014  
WV Department of  
Environmental Protection